

ABSTRACT OF THE DISCLOSURE

A digital projection apparatus (10) for projection of a multicolor image includes a magnifying relay lens assembly (28) as part of the light modulation assembly (38) for each component color. The relay lens assembly (28) increases the effective $f/\#$ of incident light to the dichroic combiner (26) used to combine modulated light of each color from each light modulation assembly (38) in order to form the multicolor image. The magnifying relay lens assembly (28) also provides a reduced working distance for the projection lens (32), allowing a lower-cost design and facilitating substitution of the projection lens (32) best suited for a display surface (40).

2025-06-07 10:00:00